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=> s MIIC (P) (MHC (3N) Class II)
L1          155 MIIC (P) (MHC (3N) CLASS II)

=> dup rem l1
PROCESSING COMPLETED FOR L1
L2           55 DUP REM L1 (100 DUPLICATES REMOVED)

=> s l2 and PD<1999
'1999' NOT A VALID FIELD CODE
   2 FILES SEARCHED...
   3 FILES SEARCHED...
L3           14 L2 AND PD<1999

=> dis l3 ibib kwic

L3   ANSWER 1 OF 14  CAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:         1998:737920  CAPLUS
DOCUMENT NUMBER:          130:152130
TITLE:                    The role of the endocytic system in antigen
                          presentation
AUTHOR(S):                Geuze, Hans J.
CORPORATE SOURCE:         Laboratory of Cell Biology and Institute of
                          Biomembranes, Utrecht University, Neth.
SOURCE:                   Electron Microsc. 1998, Proc. Int. Congr., 14th (
                          1998), Volume 1, 853-854.  Editor(s): Calderon
                          Benavides, Hector A.; Jose Yacaman, Miguel.  Institute
                          of Physics Publishing: Bristol, UK.
                          CODEN: 66YYA4
DOCUMENT TYPE:            Conference; General Review
LANGUAGE:                 English
REFERENCE COUNT:          8
REFERENCE(S):             (1) Glickman, J; J Cell Biol 1996, V132, P769 CAPLUS
                          (3) Kleijmeer, M; J Cell Biol 1997, V139, P639 CAPLUS
                          (4) Kleijmeer, M; Methods Companion Methods Enzymol
                              1996, V10, P191 CAPLUS
                          (5) Neefjes, J; Cell 1990, V61, P171 CAPLUS
                          (6) Peters, P; Nature 1991, V349, P669 CAPLUS
                          ALL CITATIONS AVAILABLE IN THE RE FORMAT
SO   Electron Microsc. 1998, Proc. Int. Congr., 14th (1998), Volume
     1, 853-854.  Editor(s): Calderon Benavides, Hector A.; Jose Yacaman,
     Miguel. Publisher: Institute of Physics Publishing, Bristol, UK.
     CODEN: 66YYA4
AB   A review and discussion with 8 refs.  Endocytosis of antigen varies for
     different types of antigen-presenting cells (APCs) and can occur by
     phagocytosis, (macro)pinocytosis or receptor-mediated endocytosis.  All
     entries into the APCs converge at endosomes.  The authors discuss the
     structures collectively called MIICs (for MHC
     class II compartments) and how these may be involved in
     antigen processing.


=> dis l3 1-14 ibib kwic

L3   ANSWER 1 OF 14  CAPLUS  COPYRIGHT 2001 ACS
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                          presentation
AUTHOR(S):                Geuze, Hans J.
CORPORATE SOURCE:         Laboratory of Cell Biology and Institute of
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                          1998), Volume 1, 853-854.  Editor(s): Calderon
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                          (3) Kleijmeer, M; J Cell Biol 1997, V139, P639 CAPLUS
                          (4) Kleijmeer, M; Methods Companion Methods Enzymol
                              1996, V10, P191 CAPLUS
                          (5) Neefjes, J; Cell 1990, V61, P171 CAPLUS
                          (6) Peters, P; Nature 1991, V349, P669 CAPLUS
                          ALL CITATIONS AVAILABLE IN THE RE FORMAT
SO   Electron Microsc. 1998, Proc. Int. Congr., 14th (1998), Volume
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     CODEN: 66YYA4
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     phagocytosis, (macro)pinocytosis or receptor-mediated endocytosis.  All
     entries into the APCs converge at endosomes.  The authors discuss the
     structures collectively called MIICs (for MHC
     class II compartments) and how these may be involved in
     antigen processing.

L3   ANSWER 2 OF 14  CAPLUS  COPYRIGHT 2001 ACS
ACCESSION NUMBER:         1998:243907  CAPLUS
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DOCUMENT NUMBER: 129:26741
TITLE: Multiple signals regulate the intracellular trafficking of HLA-DM in B-lymphoblastoid cells
AUTHOR(S): Copier, J.; Potter, P.; Sacks, S. H.; Kelly, A. P.
CORPORATE SOURCE: Department of Nephrology and Transplantation, Guy's Hospital, London, UK
SOURCE: Immunology (**1998**), 93(4), 505-510
CODEN: IMMUAM; ISSN: 0019-2805
PUBLISHER: Blackwell Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Immunology (**1998**), 93(4), 505-510
CODEN: IMMUAM; ISSN: 0019-2805
IT Organelle
(**MIIC** (**MHC class II** compartment); regulation of intracellular trafficking of HLA-DM in B-cells)

L3 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:443696 CAPLUS
DOCUMENT NUMBER: 127:175103
TITLE: Decreased endosomal delivery of major histocompatibility complex class II-invariant chain complexes in dynamin-deficient cells
AUTHOR(S): Wang, Kena; Peterson, Per A.; Karlsson, Lars
CORPORATE SOURCE: R. W. Johnson Pharmaceutical Research Institute, San Diego, CA, 92121, USA
SOURCE: J. Biol. Chem. (**1997**), 272(27), 17055-17060
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English
SO J. Biol. Chem. (**1997**), 272(27), 17055-17060
CODEN: JBCHA3; ISSN: 0021-9258
IT Organelle
(**MIIC** (**MHC class II** compartment); invariant chain/**MHC class II** sorting is dynamin-dependent)

L3 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:265045 CAPLUS
DOCUMENT NUMBER: 127:16339
TITLE: Assembly of an abundant endogenous major histocompatibility complex class II/peptide complex in class II compartments
AUTHOR(S): Morkowski, Stanislaw; Raposo, Graca; Kleijmeer, Monique; Geuze, Hans J.; Rudensky, Alexander Y.
CORPORATE SOURCE: School Medicine, University Washington, Seattle, WA, 98195, USA
SOURCE: Eur. J. Immunol. (**1997**), 27(3), 609-617
CODEN: EJIMAF; ISSN: 0014-2980
PUBLISHER: VCH
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Eur. J. Immunol. (**1997**), 27(3), 609-617
CODEN: EJIMAF; ISSN: 0014-2980
ST peptide **MHC class II** assembly lymphocyte; B cell **MIIC** compartment peptide MHC
IT Organelle
(**MIIC** (**MHC class II** compartment); endogenous major histocompatibility complex class II/peptide complex assembled in)

L3 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1996:548779 CAPLUS
DOCUMENT NUMBER: 125:216300
TITLE: Characterization of MHC class II compartments by immunoelectron microscopy
AUTHOR(S): Kleijmeer, Monique J.; Raposo, Graca; Geuze, Hans J.
CORPORATE SOURCE: Dep. Cell Biology, Utrecht Univ., Utrecht, 3584 CX, Neth.
SOURCE: Methods (San Diego) (**1996**), 10(2), 191-207
CODEN: MTHDE9; ISSN: 1046-2023
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Methods (San Diego) (**1996**), 10(2), 191-207
CODEN: MTHDE9; ISSN: 1046-2023
AB At present the best way to det. the precise intracellular localization of proteins, in a potentially semiquant. way, is the combination of ultrathin cryosectioning and immunogold labeling. This paper focuses on the intracellular localization of **MHC class II** mols., which are involved in the T helper response to exogenous antigens. Newly synthesized **MHC class II** heterodimers assoc. with invariant chain mols., which in turn direct the **MHC class II** complex to the endocytic route. Proteolytic digestion of the invariant chain frees **MHC class II** mols. so that they can bind antigenic peptides. Immunoelectron microscopy has been an important tool to identify the endocytic compartments that are enriched in **MHC class II** and that are the potential sites of antigenic peptide binding. The methods that can be used to characterize **MHC class II** compartments (**MIICs**) in various antigen-presenting cells (APCs) are described in detail. In all APCs studies so far, **MIICs** are situated late in the endocytic pathway and display lysosomal characteristics. Still, immunoelectron microscopy allows us to define subsets of **MIICs**, which can be distinguished by their morphol., accessibility to endocytic tracers, and expression of invariant chain and HLA-DM. Different types of **MIICs** can be found that display internal vesicles (multivesicular), internal membrane sheets (multilaminar), or both. The multivesicular type of **MIIC** contains detectable invariant chain and is the primary site of antigen entry. The multilaminar **MIIC** is situated later in the endocytic route and has lost most of the invariant chain antigenicity. These data suggest a sequential maturation of **MIICs**, which correlates with the degrdn. of invariant chain and the subsequent binding of antigenic peptides.

L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:858363 CAPLUS
DOCUMENT NUMBER: 123:253975
TITLE: A lysosomal targeting signal in the cytoplasmic tail

of the .beta. chain di HLA-DM to MHC class II compartments
AUTHOR(S): Marks, Michael S.; Roche, Paul A.; van Donselaar, Elly; Woodruff, Lauren; Peters, Peter J.; Bonifacino, Juan S.
CORPORATE SOURCE: Cell Biology and Metabolism Branch, Natl. Inst. Health, Bethesda, MD, 20892, USA
SOURCE: J. Cell Biol. (**1995**), 131(2), 351-69
CODEN: JCLBA3; ISSN: 0021-9525
DOCUMENT TYPE: Journal
LANGUAGE: English
SO J. Cell Biol. (**1995**), 131(2), 351-69
CODEN: JCLBA3; ISSN: 0021-9525
IT Organelle
(**MIIC** (**MHC class II** compartment); lysosomal targeting signal in cytoplasmic tail of .beta. chain directs HLA-DM to **MHC class II** compartments)

L3 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1995:328971 CAPLUS
DOCUMENT NUMBER: 122:103518
TITLE: How MHC class II molecules reach the endocytic pathway
AUTHOR(S): Benaroch, Philippe; Yilla, Mamadi; Raposo, Graca; Ito, Kouichi; Miwa, Kiyoshi; Geuze, Hans J.; Ploegh, Hidde L.
CORPORATE SOURCE: Center Cancer Research, Dep. Biology, Massachusetts Institute Technology, Cambridge, MA, 02139, USA
SOURCE: EMBO J. (**1995**), 14(1), 37-49
CODEN: EMJODG; ISSN: 0261-4189
DOCUMENT TYPE: Journal
LANGUAGE: English
SO EMBO J. (**1995**), 14(1), 37-49
CODEN: EMJODG; ISSN: 0261-4189
IT Organelle
(**MIIC** (**MHC class II** compartment); endocytic trafficking of **MHC class II**/invariant chain complexes in human B-cells)

L3 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:532185 CAPLUS
DOCUMENT NUMBER: 121:132185
TITLE: A novel lysosomal compartment engaged in antigen presentation
AUTHOR(S): Geuze, Hans
CORPORATE SOURCE: Laboratory Cell Biology, Utrecht University School Medicine, Utrecht, Neth.
SOURCE: Eur. J. Cell Biol. (**1994**), 64(1), 3-6
CODEN: EJCBDN; ISSN: 0171-9335
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Eur. J. Cell Biol. (**1994**), 64(1), 3-6
CODEN: EJCBDN; ISSN: 0171-9335
AB The authors attempted to identify the endocytic compartments involved in antigen processing and peptide binding to **MHC class II**. Using immunogold labeling of ultrathin cryosections, **MHC class II**, invariant chain, and organelle markers were localized in a variety of antigen-presenting cells. In human B-cell the majority of **MHC class II** mols. was found in a compartment called the **MHC class II**-enriched compartment (**MIIC**) with a characteristic morphol.: it contains internal vesicles and membrane sheets. **MIIC** in B-cells were shown to share several features with lysosomes.

L3 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:506199 CAPLUS
DOCUMENT NUMBER: 121:106199
TITLE: Major histocompatibility complex class II molecules induce the formation of endocytic MIIC-like structures
AUTHOR(S): Calafat, Jero; Nijenhuis, Marga; Janssen, Hans; Tulp, Abraham; Dusseljee, Simone; Wubbolts, Richard; Neefjes, Jacques
CORPORATE SOURCE: Division Cellular Biochem., Netherlands Cancer Inst., Amsterdam, 1066 CX, Neth.
SOURCE: J. Cell Biol. (**1994**), 126(4), 967-77
CODEN: JCLBA3; ISSN: 0021-9525
DOCUMENT TYPE: Journal
LANGUAGE: English
SO J. Cell Biol. (**1994**), 126(4), 967-77
CODEN: JCLBA3; ISSN: 0021-9525
AB During biosynthesis, major histocompatibility complex class II mols. are transported to the cell surface through a late endocytic multilaminar structure with lysosomal characteristics. This structure did not resemble any of the previously described endosomal compartments and was termed **MIIC** (for **MHC class II** compartment). The authors show here that continuous protein synthesis is required for the maintenance of **MIIC** in B cells. Transfection of class II mols. in human embryonal kidney cells induces the formation of multilaminar endocytic structures that are morphol. analogous to **MIIC** in B cells. Two lysosomal proteins (CD63 and lamp-1), which are expressed in **MIIC** of B cells, are also present in the structures induced by expression of major histocompatibility complex class II mols. Moreover, endocytosed HRP enters the induced structures defining them as endocytic compartments. Exchanging the transmembrane and cytoplasmic tail of the class II .alpha. and .beta. chains for that of HLA-B27 does not result in the induction of multilaminar structures, and the chimeric class II mols. are now located in multivesicular structures. Thus, expression of class II mols. is sufficient to induce the formation of characteristic **MIIC**-like multilaminar structures.

L3 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1994:320969 CAPLUS
DOCUMENT NUMBER: 120:320969
TITLE: Antigen processing and class II MHC peptide-loading compartments in human B-lymphoblastoid cells
AUTHOR(S): West, Michele A.; Lucocq, John M.; Watts, Colin
CORPORATE SOURCE: Med. Sci. Inst., Univ. Dundee, Dundee, DD1 4HN, UK
SOURCE: Nature (London) (**1994**), 369(6476), 147-51
CODEN: NATUAS; ISSN: 0028-0836
DOCUMENT TYPE: Journal
LANGUAGE: English
SO Nature (London) (**1994**), 369(6476), 147-51

CODEN: NATUAS; ISSN: 0028-0836
IT Organelle
(**MIIC** (**MHC class II**-assocd. compartment), of human B-cells, in antigen processing and **MHC class II** complex loading with peptide)

L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1993:536899 CAPLUS
DOCUMENT NUMBER: 119:136899
TITLE: The molecular basis for T cell help in humoral immunity: CD40 and its ligand, gp39
AUTHOR(S): Marshall, Lisa S.; Aruffo, Alejandro; Ledbetter, Jeffrey A.; Noelle, Randolph J.
CORPORATE SOURCE: Dartmouth Med. Sch., Lebanon, NH, 03756, USA
SOURCE: J. Clin. Immunol. (**1993**), 13(3), 165-74
CODEN: JCIMDO; ISSN: 0271-9142
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
SO J. Clin. Immunol. (**1993**), 13(3), 165-74
CODEN: JCIMDO; ISSN: 0271-9142
AB A review and discussion with 73 refs. Thymus-dependent (TD) humoral immune responses require cognate interactions between B cells and CD4+ helper T cells (Th). Since TD antigens do not express highly repeated epitopes, the binding of antigen to membrane IgM and membrane IgD (mIg) is insufficient to trigger B cell cycle entry and subsequent antibody prodn. Although incapable of directly triggering B cell activation, once bound to mIg, TD antigen is endocytosed and processed by antigen-specific B cells. The processed antigen is expressed on the B cell surface in a complex with **MIIC** class II mols. and presented for Th recognition. Ligation of CD4 and the T cell receptor (TcR) by the antigen/**MHC class II** complex, together with the interaction of other surface mol. ligand-receptor pairs, including CD28-B7, LFA1-ICAM1, and CD4-**MHC class II**, activates the Th. Once activated, Th rapidly express lymphokine genes and a membrane protein, gp39, which is essential for the reciprocal activation of the cognate, antigen-presenting B cell. The interaction of gp39 with its receptor CD40, on the B cell, derives B cell cycle entry and induces B cell responsiveness to the growth and differentiative effects of lymphokines.

L3 ANSWER 12 OF 14 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1998:363067 BIOSIS
DOCUMENT NUMBER: PREV199800363067
TITLE: Donor pretreatment with Flt-3 ligand augments antidonor cytotoxic T lymphocyte, natural killer, and lymphokine-activated killer cell activities within liver allografts and alters the pattern of intragraft apoptotic activity.
AUTHOR(S): Qian, Shiguang (1); Lu, Lina; Fu, Fumin; Li, Wei; Pan, Fan; Steptoe, Raymond J.; Chambers, Frances G.; Starzl, Thomas E.; Fung, John J.; Thomson, Angus W. (1)
CORPORATE SOURCE: (1) W1540 Biomed. Sci. Tower, Univ. Pittsb. Med. Cent., 200 Lothrop St., Pittsburgh, PA 15213 USA
SOURCE: Transplantation (Baltimore), (**June 27, 1998**) Vol. 65, No. 12, pp. 1590-1598.
ISSN: 0041-1337.
DOCUMENT TYPE: Article
LANGUAGE: English
SO Transplantation (Baltimore), (**June 27, 1998**) Vol. 65, No. 12, pp. 1590-1598.
ISSN: 0041-1337.
AB . . . cytokine that strikingly augments functional dendritic cells (DCs) within lymphoid and nonlymphoid tissue. Methods. The expression of costimulatory molecules and **MHC class II** antigen on DCs isolated from livers of FL-treated B10 (H2b) mice (10 mug/day; 10 days) was examined by flow cytometric. . . . in primary mixed leukocyte cultures. B10 livers from FL-treated donors were transplanted orthotopically into naive C3H (H2k) recipients. Donor cells (**MIIC** class (II+) in recipient spleens were identified by immunohistochemistry. Antidonor cytotoxic T lymphocyte activity, and both natural killer and lymphokine-activated. . .

L3 ANSWER 13 OF 14 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1997:96196 BIOSIS
DOCUMENT NUMBER: PREV199799395399
TITLE: Egress of newly peptide-loaded **MHC class II** molecules from the **MIIC** to the plasma membrane is independent of early endosomes.
AUTHOR(S): Pond, Leslie; Watts, Colin
CORPORATE SOURCE: Dep. Biochemistry, Med. Sciences Inst., Univ. Dundee, Dundee DD1 4HN UK
SOURCE: Molecular Biology of the Cell, (1996) Vol. 7, No. SUPPL., pp. 325A.
Meeting Info.: Annual Meeting of the 6th International Congress on Cell Biology and the 36th American Society for Cell Biology San Francisco, California, USA December 7-11, 1996
ISSN: 1059-1524.
DOCUMENT TYPE: Conference; Abstract; Conference
LANGUAGE: English
TI Egress of newly peptide-loaded **MHC class II** molecules from the **MIIC** to the plasma membrane is independent of early endosomes.
SO Molecular Biology of the Cell, (1996) Vol. 7, No. SUPPL., pp. 325A.
Meeting Info.: Annual Meeting of the 6th International Congress on Cell Biology and the 36th American Society for Cell Biology San Francisco, California, USA December 7-11, 1996
ISSN: 1059-1524.

L3 ANSWER 14 OF 14 BIOSIS COPYRIGHT 2001 BIOSIS
ACCESSION NUMBER: 1997:53591 BIOSIS
DOCUMENT NUMBER: PREV199799352794
TITLE: In vitro differentiation of CD34+ hematopoietic progenitor cells towards distinct dendritic cell subsets of the MIIC-positive Langerhans cell- and the interdigitating dendritic cell type.
AUTHOR(S): Lindemann, Albrecht (1); Koehler, Gabriele; Mackensen, Andreas (1); Veelken, Hendrik (1); Rosenthal, Felicia M. (1); Schaefer, Hans Eckhart; Fisch, Paul (1); Mertelsmann, Roland (1); Herbst, Birgit (1)
CORPORATE SOURCE: (1) Dep. Med. I, Univ. Med. Cent., Freiburg Germany
SOURCE: Blood, (1996) Vol. 88, No. 10 SUPPL. 1 PART 1-2, pp. 153A.
Meeting Info.: Thirty-eighth Annual Meeting of the American

Society of Hematology Orlando, Florida, USA December 6-10, 1996
ISSN: 0006-4971.
DOCUMENT TYPE: Conference; Abstract; Conference
LANGUAGE: English
SO Blood, (1996) Vol. 88, No. 10 SUPPL. 1 PART 1-2, pp. 153A.
Meeting Info.: Thirty-eighth Annual Meeting of the American Society of Hematology Orlando, Florida, USA December 6-10, 1996
ISSN: 0006-4971.
IT . . .
GRANULOCYTES; IN-VITRO; MACROPHAGES; MAJOR HISTOCOMPATIBILITY COMPLEX-CLASS II COMPARTMENT-POSITIVE INTERDIGITATING DENDRITIC CELL TYPE; MAJOR HISTOCOMPATIBILITY COMPLEX-CLASS II COMPARTMENT-POSITIVE LANGERHANS CELL TYPE; **MHC-CLASS II** COMPARTMENT-POSITIVE INTERDIGITATING DENDRITIC CELL TYPE; **MHC -CLASS II** COMPARTMENT-POSITIVE LANGERHANS CELL TYPE; **MIIC**-POSITIVE INTERDIGITATING DENDRITIC CELL TYPE; **MIIC**-POSITIVE LANGERHANS CELL TYPE; MONOCYTES; T CELL ACTIVATION; T CELL TRAFFICKING

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